

## **ABSTRACT**

A system and method for generating a message integrity code, MIC, for a MAC protocol data unit in a wireless local area network, WLAN, operating according to the IEEE 802.11 standard. A MAC service data unit, MSDU, sequence control sequence number, SN, input to the MIC algorithm is suppressed, e.g. set to all zeros, when calculating the MIC. Only the fragment number, FN, portion of the sequence control is included in calculation of the MIC. The MIC may therefore be calculated before an actual SN has been determined. All MPDUs include sequential packet numbers, PNs. A station receiving MPDUs checks the PNs of MPDUs having the same SN, and rejects messages which do not have a proper sequential set of PNs.